

Oliver C. Dodd

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SKILLS

LANGUAGES

Programming	Java, Scala, Objective C, C, C++, C#
Scripting	PHP, Javascript, SQL, Ruby, Bash, Squirrel
Markup	HTML 4, HTML 5, XHTML, XML, CSS

FRAMEWORKS/LIBRARIES/APIs

Java	Spring, JPA/Hibernate, JDO, SWT/Swing/AWT, JSP, JSTL, Quartz, Apache Commons, Maven, JUnit, JMock, SiteMesh, JAWR, SOAP/Web Services
Objective C	Cocoa, Cocoa Touch, AppKit, QKit, UIKit, Foundation
Scripting	Prototype, jQuery, Wordpress, CakePHP, Ruby On Rails, Dashboard Widgets, Yahoo Widgets

SOFTWARE

Operating Systems	Mac OS X, Windows, Linux (Ubuntu, Fedora)
Web Servers	Apache/Apache2, IIS
Databases/Search Engines	MySQL, Solr/Lucene, SQLite, Microsoft SQL
IDEs	Eclipse, XCode, TextMate, JEdit, Visual Studio

STRENGTHS

- Exceptional critical thinking and problem solving skills.
- Motivated and self-guided, requiring little direction.
- Focused on good design, abstraction, efficiency, testability, scalability, and maintainability.
- Able to learn new programming and scripting languages with ease and rapidly acquire skills in new technologies.

EXPERIENCE

Taleo Corporation (<http://www.taleo.com>)

Senior Software Developer, April 2009 - Current

Worked with a small team using agile methodologies to rapidly design and develop a large, scalable, public facing Java web application.

Projects:

Talent Exchange (<https://www.talentexchange.com>) - Participated in the design and development of the Talent Exchange, a global candidate talent community where job seekers can create and maintain a Universal Profile with which to apply to millions of Taleo managed jobs. Employers using Taleo software can search the global pool of candidates to find matches for their current requisitions and download them to their recruiting system. The Talent Exchange is a cloud-hosted java web application that leverages many open source frameworks and libraries including Spring (IOC, AOP, and MVC), Hibernate and Quartz.

- Developed critical components of the application including the resume editing framework, the credit/payment system, and candidate searching.
- Participated in the definition, prioritization, and planning of new features.
- Coordinated development with other teams and third party vendors. Integrated with other applications using REST, SOAP, WSDL defined Web Services, and other custom APIs.

- Analyzed and improved the performance of the application and its dependencies. Optimized server side and client side code. Improved the database schema and queries. Tuned configuration files for critical applications including Apache and Solr. Tested and analyzed application performance using tools such as Grinder, Wireshark, and JProfiler and by taking thread dumps under load.
- Developed and refined many of the visual components and client side scripts, ensuring cross-browser compatibility.
- Shared in system administration duties. Created and configured EC2 instances, managed Apache configurations, and participated in all deployments. Installed and maintained third party software including development tools for continuous integration and defect tracking.
- Conducted interviews and phone screenings for open positions within the group or on related teams.

Other Notable Accomplishments:

- Developed a functional prototype iPhone application for the Talent Exchange's candidate features.
- Proposed and prototyped a Single Sign On solution for the Talent Exchange and related products.
- Gave presentations on libraries, languages, and coding practices to other developers and managers.

Duos Technologies (<http://www.duostechnologies.com>)

Senior Software Developer, August 2005 - March 2009

Lead developer responsible for the design, creation, and implementation of Graphical User Interfaces for Intelligent Video Security Systems in addition to a multitude of other pieces of software to facilitate the transmission, collection, and presentation of information from remote servers.

Projects:

Duos GUI (Remote To Praesidium®) - Designed, developed, and maintained a modular and customizable GUI for the monitoring and maintenance of a Praesidium® based Intelligent Video Security System. Used PHP, Javascript, AJAX, HTML/XHTML, CSS, MySQL, Microsoft SQL, and our own proprietary ActiveX controls to provide a complete security solution by streaming current and archived video, displaying alarm and system information on an interactive map, running diagnostic and maintenance tools, compiling and sending reports based on alarms or other site specific events, and providing many more project specific functions. All user actions and system events are logged in a database and made available to administrators. Over 50 projects use customized builds of this software to provide customers with a variety of security and other intelligent video related solutions.

A very limited example can be seen at <http://rvspro.com>.

Duos 3D GUI - Scripted the interface to a 3D environment using the Squirrel scripting language and the Irrlicht 3D engine. Users can navigate and interact with a custom built 3D environment to better understand the geospatial location of alarm events and pull up real time video from cameras located in the scene. Alarm events automatically "fly" the user to the alarm location for real time threat notification.

Duos Alarm Server - Developed a multithreaded Java application that uses sockets to communicate with software on a large number of remote sites and processes responses to detect alarm events. When an alarm is detected the application downloads a series of images from the camera from which the alarm originated, storing them locally for rapid retrieval, and adds the event to a database. A web based GUI is used to explore and manage the stored alarm events. Operators can monitor the health of the network connections to the remote servers, take ownership of alarms, view and download the stored images, stream live video, review the alarm meta data and classification information, and acknowledge any resolved event to clear it from the current alarm list.

Duos Command and Control - Designed and built a large scale video monitoring system for the Command and Control Center of one of our largest customers. Operators can view the maps for each remote site connected to the interface, drag and drop cameras from the maps onto grids corresponding to separate viewing screens where the video will begin streaming, and view archived video for alarm events. Additional screens display multiple cycling video streams in sequenced or random order and display alarm events in the case of a detected threat.

Panorama Explorer - Created a module for the Duos GUI to enable the fluid exploration of large, video generated panorama images (of trains) and the dynamic display of highlighted regions. Tiles for the panorama were stitched together on demand in PHP while multiple resolutions were used client-side to allow for seamless movement through the panorama.

Autocheck - Built a web utility used to automatically analyze the video quality of cameras, ensure that certain key pieces of software are running, check that the disk usage has not dropped below a certain threshold, and send a detailed report when our software has crashed on an array of remote servers. The site performs the checks, emails reports, graphically displays the results, and provides configuration pages for the addition of remote sites to analyze.

Yahoo Widgets and Windows Mobile Apps - Created Yahoo Widgets and Windows Mobile applications that interface with the security systems and sites.

Other Notable Accomplishments:

- Constructed a Project and Software Management repository where files and information pertaining to the company's projects and software are uploaded, updated, and interlinked.
- Installed and maintained a defect tracking system to be used for all software projects.
- Redesigned an existing database structure for a high transaction video cataloguing system and altered the corresponding ASP and VB components, greatly increasing performance.
- Installed and configured required software on project machines.
- Acted as a primary agent in the investigation and diagnosis of software system problems.
- Created training tools, wrote detailed documentation, and gave presentations to both coworkers and customers.
- Travelled to remote sites to perform system setup/maintenance, hold training sessions, and meet with customers.

Property Pix Holdings, LLC (<http://www.propertypix.com>)

Developer, February 2007 - May 2007

Worked as an independent contractor with one other individual to design a web based application used to sell listings in a property classifieds magazine. Front end development was undertaken almost entirely by myself using the cakePHP framework and personal libraries. Features included account registration with email validation, listing creation and purchase, property pictures and realtor portrait image upload with automatic scaling and cropping for optimized/uniform display, listing search based on assorted criteria, and administrative duties including the editing of all database information and the approval of listings for print.

The Offices of David Thorpe (<http://www.thorpeforms.com>)

Developer, October 2003 - July 2005

Worked with one other developer to create and maintain a suite of legal software applications and forms.

Projects:

ThorpeDesktop - A Swing Java application used to download, update, license, and launch legal forms and utility applications.

Amortization Wizard - A Swing Java application to calculate the monthly payment, remaining balance, interest and principal paid, and a printable schedule of payments for a mortgage.

Interest Wizard - A Swing Java based interest calculator for keeping track of both investments and loans.

**Computing and Networking Services, College of Computing,
Georgia Institute of Technology**

Undergraduate Assistant, February 2001 - May 2003

- Performed physical and software related network maintenance and management.

- Configured routers, computers, printers, and various network enabled devices.
- Performed maintenance on a variety of computers and computer related peripherals.
- Installed hardware and software for a host of different platforms.
- Answered and acted upon individual user requests.

PROJECTS

Darkr (<http://www.darkr.net>)

A "view on black" web application for Flickr photos hosted on Google App Engine.

Twitographie (<http://twitographie.com>)

A Google Maps / Twitter mashup for exploring public, geocoded tweets around the user's location.

Cursory (<http://01001111.net/cursory>)

A Mac OS X application that creates art based on the user's mouse movements.

slght (<http://01001111.net/slght>)

A Mac OS X application that converts your iSight video stream to moving ASCII art.

Soundscan (<http://01001111.net/soundscan>)

A Mac OS X dashboard widget that lists the users connected to your iTunes share and the files being streamed.

01001111 library (<http://01001111.net/01001111lib>)

A loosely bound collection of PHP classes and functions, Javascript objects and methods, and CSS styles that expand the functionality of their respective languages. The library is geared towards the rapid yet robust development of Web Applications and scripts.

Wordpress Plugins (<http://wordpress.org/extend/plugins/profile/01001111-1>)

A number of Wordpress plugins that integrate with popular web services such as Twitter, Last.FM, Google Calendar, GitHub, and Digg.

Source code for many of my projects is available at GitHub: <http://github.com/oliverdodd>

EDUCATION

Georgia Institute of Technology, May 2003

Bachelor of Science in Computer Science